

Publication

EP 0711942 A3 19960529

Application

EP 95307593 A 19951025

Priority

US 33886994 A 19941114

Abstract (en)

[origin: US5501244A] A valve assembly 30 includes a pressure balancer 38 and a water mixing control element 150. Hot and cold water flow through pressure balancer 38 and a throttle plate 200 and into a mixing chamber 144 where selected amounts of the hot and cold water are mixed to a temperature level selected by a user. If the pressure of the cold water changes, the pressure balancer 38 responds and adjusts the amount of hot water flowing to the mixing chamber 144 to maintain the temperature of the mixed water as initially selected. If the cold water pressure fails, pressure balancer 38 responds and turns off the hot water to prevent scalding the user. Pressure balancer 38 responds in similar fashion to changes or failure in the pressure of the hot water.

IPC 1-7

F16K 11/00; **G05D 23/13**

IPC 8 full level

F16K 11/074 (2006.01); **G05D 23/13** (2006.01)

CPC (source: EP KR US)

F16K 11/0746 (2013.01 - EP KR US); **F16K 17/003** (2013.01 - KR); **F16K 27/0263** (2013.01 - KR); **G05D 23/1313** (2013.01 - EP KR US); **Y10T 137/2514** (2015.04 - EP US); **Y10T 137/5994** (2015.04 - EP US); **Y10T 137/86823** (2015.04 - EP US)

Citation (search report)

- [XA] US 3688790 A 19720905 - ESTEN HAROLD
- [A] US 3724480 A 19730403 - POVALSKI E, et al
- [A] FR 2250936 A1 19750606 - PIEL P ETS [FR]
- [A] DE 2159839 A1 19730607 - MESSER GRIESHEIM GMBH
- [A] DE 4325256 A1 19940203 - MASCO CORP [US]
- [A] DE 1991296 U

Cited by

EP1334301A4; EP0972976A2

Designated contracting state (EPC)

DE GB SE

DOCDB simple family (publication)

US 5501244 A 19960326; CA 2150991 A1 19960515; CA 2150991 C 20051206; DE 69527249 D1 20020808; DE 69527249 T2 20030227; EP 0711942 A2 19960515; EP 0711942 A3 19960529; EP 0711942 B1 20020703; EP 0972976 A2 20000119; EP 0972976 A3 20000308; KR 200209299 Y1 20010115; KR 960018142 U 19960619; TW 270967 B 19960221; US 5505225 A 19960409

DOCDB simple family (application)

US 33886994 A 19941114; CA 2150991 A 19950605; DE 69527249 T 19951025; EP 95307593 A 19951025; EP 99202956 A 19951025; KR 19950033204 U 19951113; TW 83110795 A 19941121; US 46763095 A 19950606